

CLAIMS

I claim:

1. A purified polypeptide the amino acid sequence of which consists of SEQ ID NO:1.
2. A purified polypeptide the amino acid sequence of which comprises at least eight consecutive residues of SEQ ID NO: 1.
3. A purified polypeptide the amino acid sequence of which comprises residues 33-63 of SEQ ID NO: 1.
4. A purified polypeptide the amino acid sequence of which comprises consecutive residues of SEQ ID NO: 1 selected from the group consisting of 34-63, 35-63, 36-63, 37-63, 38-63, 39-63, 40-63, 41-63, 42-63, 43-63, 44-63, 45-63, 46-63, 47-63, 48-63, 49-63, 50-63, 51-63, 52-63, 53-63, 54-63, 55-63, and 56-63.
5. A purified polypeptide as described in claims 1, 2, 3, or 4, wherein said purified polypeptide has at least one conservative amino acid substitution.
6. A method of reducing tumor volume in an animal, comprising introducing into the animal a purified polypeptide the amino acid sequence of which comprises at least eight consecutive residues of SEQ ID NO: 1.
7. A method of reducing tumor volume in an animal as described in claim 6, wherein said purified polypeptide has at least one conservative amino acid substitution.
8. A method of inhibiting the proliferation of endothelial cells in an animal, comprising introducing into the animal a purified polypeptide the amino acid

sequence of which comprises at least eight consecutive residues of SEQ ID NO: 1.

9. A method of inhibiting the proliferation of endothelial cells in an animal as described in claim 8, wherein said purified polypeptide has at least one conservative amino acid substitution.

5 10. A method of targeting and binding a purified polypeptide to an angiogenesis receptor, comprising introducing into the animal a purified polypeptide the amino acid sequence of which comprises at least eight consecutive residues of SEQ ID NO: 1.

10 11. A method of targeting and binding a purified polypeptide to an angiogenesis receptor as described in claim 10, wherein said purified polypeptide has at least one conservative amino acid substitution.

12. A kit comprising at least one vessel containing a purified polypeptide the amino acid sequence of which comprises at least eight consecutive residues of SEQ ID NO: 1.